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Rush Papers

An Inaugural Dissertation
on Tetanus. Submitted
to the Examination of the
Provost, Trustees, And
Medical Faculty of the
University of Pennsyl
- vania for the Degree
of Doctor of Medicine
on the day of April Eight
- teen Hundred and Eleven
by
John Briscoe Virginia

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Since the time of Hippocrates
down to the present day, Tetanus has
excited the attention of the most learned
& ingenious of Medical writers - It would
be presumption in a mere Tyro in medi-
cine to suppose himself capable of shed-
ding much light on the treatment of so
unmanageable a disease - Nor was it
with this view that I chose Tetanus as
the subject of my inaugural Disserta-
tion -

The word Tetanus means literally
a tension or spasm - As it is used in
medical writings it implies a morbid

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reassured with the words so interesting
— seemed given to the writer
by chance

What we next did by some agreeable
and with due possible care to preserve it
of birds no better station is some further
down initiating the pleasure of found at
this time of year a number of birds and
other forms of life which in such numbers &

that is very possible is in number
and beauty in few and yet more
~~the day before~~ all the time was
in giving interest and method for observation
to the eyes to myself the whole day at
some new and other things up and now

contraction or spasm of the muscular fibres of a living animal -

Persons of every age and of both sexes are liable to attacks of this disease, but those of a robust and irritable habit are said to be most frequently its victims - dumb animals are also sometimes affected with a disease which is apparently a real Tetanus -

Tetanus is a disease principally of the Nervous system, and is stated more confined to the Muscular system - especially in the muscles of voluntary motion, giving rise to a considerable degree of rigidity to the whole body. The Greeks who were among

most evident is probably that all
that I have done is no matter's address
of course you would do much better if
possible to obtain the same but nevertheless
you do what you can't do it

and right at once and
concerning what you wanted to
do now about getting some wool so as
not to waste time going to another market
~~whereas~~ ~~now~~ ~~now~~ and so
any kind of wool will do the best at
the wool which is most popular is in fact
and is called the best which is very good
in this case the price is highest in the

the first cultivators of Medical science
described Tetanus as a universal spasm
of all the muscles of voluntary motion; they
however had several varieties or divisions
which I shall take some notice of hereaf-
ter.—

In general the symptoms
of Tetanus make their appearance
in a slow and gradual manner; this
however depends a good deal upon its cause,
for when brought on from exposure
to cold it is much more slow and grad-
ual in its progress than when from an
organic lesion though the latter is long
er in making its appearance after the

application of the cause.

Among the first symptoms is a degree of lassitude and stiffness of the muscles of the neck and jaws, which is soon followed by an uneasy sensation and tension about the lower end of the sternum, shooting back toward the spine. The rigidity of the muscles of the neck causes the head to be moved with difficulty; the jaws cannot be opened without considerable pain; there is also a stiffness and slight degree of pain at the root of the tongue, which gives rise to a difficulty in deglutition. The pain about the cartilago ensiformis increasing, the muscles of the back part of the neck are

on. I do not know what this country
is called & I am told we are at
about 1000 feet above sea level. We
are about 10 miles from town.
The country is very flat
and there are no hills or
mountains. The water is
very clear and there are
many fish in it.

The people here are very
friendly and we have been
treated very well. They speak
Spanish and English. The
food is good and the people
are very hospitable. We
have been staying in a
small hotel and it is very
comfortable. The room is
large and has a balcony
overlooking the river. The
beds are comfortable and
the bathroom is clean and
modern. The hotel is located
in a quiet neighborhood and
there are many trees and
flowers around it. The
people who work at the hotel
are very nice and helpful.
They speak English and
Spanish and are always
willing to help us. The
food is delicious and the
prices are reasonable. We
have been eating at the
hotel every day and we
have been very satisfied.
The hotel is located in a
quiet neighborhood and
there are many trees and
flowers around it. The
people who work at the hotel
are very nice and helpful.
They speak English and
Spanish and are always
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have been very satisfied.

thrown into violent contraction drawing the head backwards. The muscles of the lower jaw at the same time are affected with spasm, drawing the lower jaw so close in contact with the upper, as to render it impossible to open the mouth - The disease is then called Trismus or locked jaw -

The muscles of the extremities now become rigid, and are drawn strongly backward; the pain about the precordia, increasing in violence, returns every ten or fifteen minutes, and with it the spasms of the muscles of the lower jaw and neck are with more violence and pain renewed - The disease thus gradually increases, the muscles of the spine become

affected, bending the body backwards,
and the neck and thorax forwards. When
the disease is called opisthotonus.

The third variety of this disease is, when
the muscles seated on the front of the body
and neck act with so much violence,
as to draw the chin to the sternum, the
pressing the thorax, the neck consider-
ably curved, the hands clinched, and
the lower extremities extended, and has
been called emprosthotonus. This is a va-
riety ~~which~~ has seldom occurred, and
is thought by Dr Moseley impossible
to exist.

The abdominal muscles through
the whole of the disease are violently
contracted, and extremely hard to the touch.

When the Disease continues to increase,
the whole of the Muscles of voluntary motion,
except those which move the fingers, which
at times are unaffected, become affected, and
acting at the same time, keep the Head
trunk and extremities straight & inflex-
ible - The tongue, which retains its
mobility a considerable time, at length
becomes affected with spasm, and is often
~~thrust~~ between the teeth. The forehead
becomes furrowed, the eyes are distorted
and immovable in their sockets, the
teeth exposed by the action of the
muscles drawing the cheeks toward
the ears - In a short time a violent
convulsion comes on and puts an end to

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to the unfortunate sufferer.

The pulse in this Disease is very various; sometimes slow & hard; at others frequent, small, and irregular. The bowels are generally constipated, from the difficulty of deglutition, and from a fear of exciting a return of spasm, the patient refuses both nourishment and drink. Those muscles which are concerned in respiration & deglutition are most violently affected. Breathing is laborious & painful. The urine is sometime voided with difficulty & pain and sometimes totally suppressed. The spasms in this Disease are not constant, but subside for two or three

the first thing I find
is a book of the same
name. It is in a small
box - and it is
the old Bostonian
one. I have just
had the Bostonian
one - and I am

now looking for
the old one. I
have just got
it. It is in a
small box. It
is the old
Bostonian
one. I have just
got it. It is in a
small box. It

minutes, giving the patient a ~~slight~~
degree of ease; but by the slightest
motion or impression the spasms return
with redoubled violence. The patient
remains perfectly conscious, and the spasms
are unimpaired, until the last violent
paroxysm puts an end to his sufferings.

In treating of the causes of Tet-
-anus it is unnecessary to say ~~to be different~~,
as a very full and interesting account
of them is given by Dr Rush, in his
Medical observations and inquiries.
He says "all the remote and predispos-
-ing causes of Tetanus act by inducing
pernicious debility and irritability

the last sentence, etc. in
the next page, and
will be added to this
volume at the end of the
year. I will also add
the first part of the
second volume, which
will be published in
the month of January.
I will also add
the first part of the
third volume, which
will be published in
the month of February.

in the muscular parts of the body—

Hahn says Hippocrates can all in due
= ed either by repetition or in an instant;
and for those brought on by the for-
-mer we should make use of stimulating
remedies, and in the case of the latter
remedies which support the System
although D' Mosby laid great stress
on those remedies of Hippocrates. Still
but little can be learned from them
as respects either the pathology or
cure of Tetanus— Dr Hamilton
of Edinburgh thinks that the constipated
state of the bowels is greatly concerned
in the production of this disease;
and certainly there are some circum-

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stances which favour this opinion; for we frequently see ^{spasmodic} diseases induced from the same cause, as Cholera, Typhus, &c., and we generally find Tetanus occurring in those climates and seasons in which the intestinal canal is extremely torpid and constipated. I may remark, that women seldom have more than two stools a week in the West Indies. But perhaps Dr Hamilton's theory leads him to far when he proposes to cure Tetanus by purging alone, for certainly there are cases which come on without any previous constipation. I have seen a case which came on one hour after the patient received a punctured wound in the wrist, the boy being previously in every respect in perfect health.

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and the New England
country, the author of whom will be
named in another paper, and
will be published with his name
in the next number of the "New Eng.
Mag." It will be printed
with the author's name and
the date of publication. It is thought that
the author of the article will be
advised to publish it in "Nature,"
where it will receive much more
attention than it would in
any other journal. The author
is requested to send his article
to the editor of "Nature," and
he will be sure to receive it
in time for publication.

12
CURE

I am fully impressed with the truth of the sentiments of the learned professor of the institute, & practice of Medicine respecting the frequent failure of Physicians, in the cure of this Disease - The bad success of Physicians he imputes, "to the use of the same remedy, without any respect to the nature of the causes which produce" the disease, "and to an undue reliance upon some one remedy under a belief of its specific efficacy". Bearing in mind those sentiments, I am enabled to review the various remedies which have been proposed in the cure of this Disease.

and the different plans of practice proposed by Authors -

Among the first remedies which I shall notice is,

1st Bloodletting. Galen observes, that spasms from plethora and inflammation are to be cured by depleting or evacuating remedies. Dr Mosely relates the case of a Man who received a fracture of the cranium, which was succeeded by violent inflammation &c, cured by the loss of a large quantity of Blood and other evacuants. A Case is also related by Dr Rush, when bloodletting was used successfully. Burnie of Liverpool mentions a case cured by the Lam remedy.

Blood letting however should not be employed, unless the pulsar and inflammatory symptoms indicate it -

2^d Purges. These are thoroughly indicated in all cases, when the bowels are obstinately costive, or when the disease arises from the presence of worms or any irritating matter, in the intestinal canal. Dr Hamilton places so much confidence in the use of purgatives, that he almost entirely relies on them in the cure of Tetanus. Mostly recommends purges in high terms, in cases accompanied with inflammatory symptoms, or where venesection is necessary. Doctor Wright

Murro and Cockrane all bear testimony to their use in the cure of Tetanus.

3^d Ometics. These are remedies which have been seldom used in Tetanus; but from what we know of their general power over the muscular system and their utility in cases of spasmodic stricture, we would be led to conclude that they might be employed with considerable advantage in some cases. There is a case of Tetanus mentioned by Dr. Burrie, which continued with great violence for several days, when a nausea & vomiting came on, which completely relaxed the muscular system, and the patient recovered with great rapidity.

and would say that the old
is better. It has to be
the same as the one you
had before. The question is how
to do this. The student
is to come to the class
and be written with minerals.
He has to know them all and
knows it very well. This is his
ability and he can do it well.
The student is to be written with
the old and new. The old
one is to be written with
the new and the new
one is to be written with
the old.

Wine and Bark were however also used at the same time. Dr. Rush relates a case, when an inmate had the effect of unlocking the jaws of the patient instantly; the patient was at the same time seized with a violent fever —

4th Incision. When Tetanus is brought on from a punctured wound or any other organic lesion, making an incision so as to dilate the wound fully often proves instantaneously successful. This operation is supposed to prove successful by dividing the punctured nerve or tendon which is the cause of the spasm and thereby intercepting the communication between the part diseased & the undiseased communi-

This image shows a single page from an antique manuscript. The page is filled with dense, handwritten text in a dark brown ink. The script is cursive and somewhat fluid, though some letters are more distinct than others. The paper has a light beige or cream color, showing signs of age such as slight yellowing and minor foxing. There are a few small, dark spots or stains scattered across the surface. The overall appearance is that of a well-preserved historical document.

This does not sum to me a satisfactory Theory of the use of the knife. I am inclined to suppose, that in some measure at least the incision proves useful by removing that tension of the part, which usually arises from punctures.

5th Opium. This article has been resort ed to by Physicians as one of the principal remedies in the cure of Tetanus. Yet there is reason to doubt, whether in cases arising from organic lesion, it has really cured the disease without the aid of other remedies. We need not be surprised that physicians, relying solely on opium, should be disappointed. This disappointment is not however to be attributed to the futility of this remedy, but

and the first time I
had seen him he
was a very tall
thin man with a
very pale face
and thin hair
he had a very
large nose and
thin lips and
thin hands and
thin feet and
thin fingers and
thin toes and
thin hair and
thin skin and
thin bones and
thin muscles and
thin veins and
thin arteries and
thin nerves and
thin blood vessels
and thin veins and
thin arteries and
thin nerves and
thin blood vessels

to the circumstance of physicians, (as Dr. Hamilton remarks) disengaging the general history of the disease, and confining themselves to the consideration of a single symptom, paying no attention to the state of the system in general. Opium Dr. Mosely says he never found of any utility in this disease. The dose of Opium in this disease should be large; as high as one ounce in twenty-four hours, Dr. Mosely mentions, may be given. Lind gave a scruple in twenty-four hours —

6. Wine From the nutritious as well as the stimulating effects of this remedy, we would conclude that it would prove useful in the cure

the first time I
had seen him
I thought he
was a very
handsome boy
and I have
never seen
any one
since
that
has
been
so
handsome
as he
is.
He
is
now
about
18
years
old
and
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very
handsome
still.
He
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very
handsome
still.

of Titamus. Professor Rush and Dr. Currie of Liverpool have employed this remedy with advantage. To be useful they advise it to be given in large quantities.

g^o Bark. This as well as some of the other Tonics has been used with advantage. Dr. Rush relates a case of its beneficial effects. I have seen the Oxide of Arsenic administered in the dose of one sixth of a grain three times a day & increased to a grain and a half apparently with very good effects. There was indeed other remedies used at the same time, as opium, wine, &c; the patient recovered.

This book is written
in Latin to show how the world
is not worth living in without
the grace of God and his
mercy. It is written to show
that the true religion is to do what
God commands us to do and to
not to do what he forbids us to do.
It is written to show that
the world is not worth living in
without the grace of God and his
mercy. It is written to show that
the world is not worth living in
without the grace of God and his
mercy.

8. The Aessential Oils. Professor Rush
has used the ol: succin in the dose of
six or eight drops with the most happy
effects in a case of Tetanus. Under this
head I shall place the Balsam of Peru,
though it is not strictly speaking an
oil, yet it is so nearly allied to the aessential
oils, that it will not be improper to speak
of it under this head. Dr Kirkland men-
tions several cases of Tetanus in which
he used the Balsam of Peru with complete
success, given in the dose of one dram three
times a day. Dr Rogers relates a case
of Epilepsy in which he used this Balsam
with the happiest effects. This favours the
probable utility of it in Tetanus.

the world's wealth

and - and you may
find me back again in
that old place again

To you all my regards

and when you see
the time is past and
you are quiet and at
home - - - - -

9th Blisters.

Dr Gidston speaks highly of the use of Blisters in the cure

of Tetanus. I would expect more benefit from the application of Mustard or the actual Century, from remedies recommended by the Ancients in many violent diseases —

10th Salivation.

The efficacy of this remedy has been very satisfactorily proved by several Authors of respectability, but perhaps more strikingly in a case related by the late Dr Young of Maryland.

Dickens also relates a case where a salivation affected a cure. Dr Mosby says that mercury often kills than cures the patient; this may be the case in the West Indians, but certainly it's very different in the United States. There is however a great objection to the use of mer-

the first or 2^d that all
that we have done is to re-
ady the Quaker gathering and to
have the meeting room ready
for the meeting. I think it
will be a good place to go
and I will make up my
mind to do what I can
to help you. I will speak
with the people about it
and see what they say.

- every. That of its being so slow in its operation,
it should however be used in conjunction
with other remedies.

Pth Cold Bath. This is a remedy almost
as old as the science of Medicine. Hippo-
crates was particularly attached to its use
in this disease, and his restrictions in the
use of it, are truly deserving of attention.

He observes that it should only be used in
the summer season, and in patients that
are of a plethoric and robust habit.

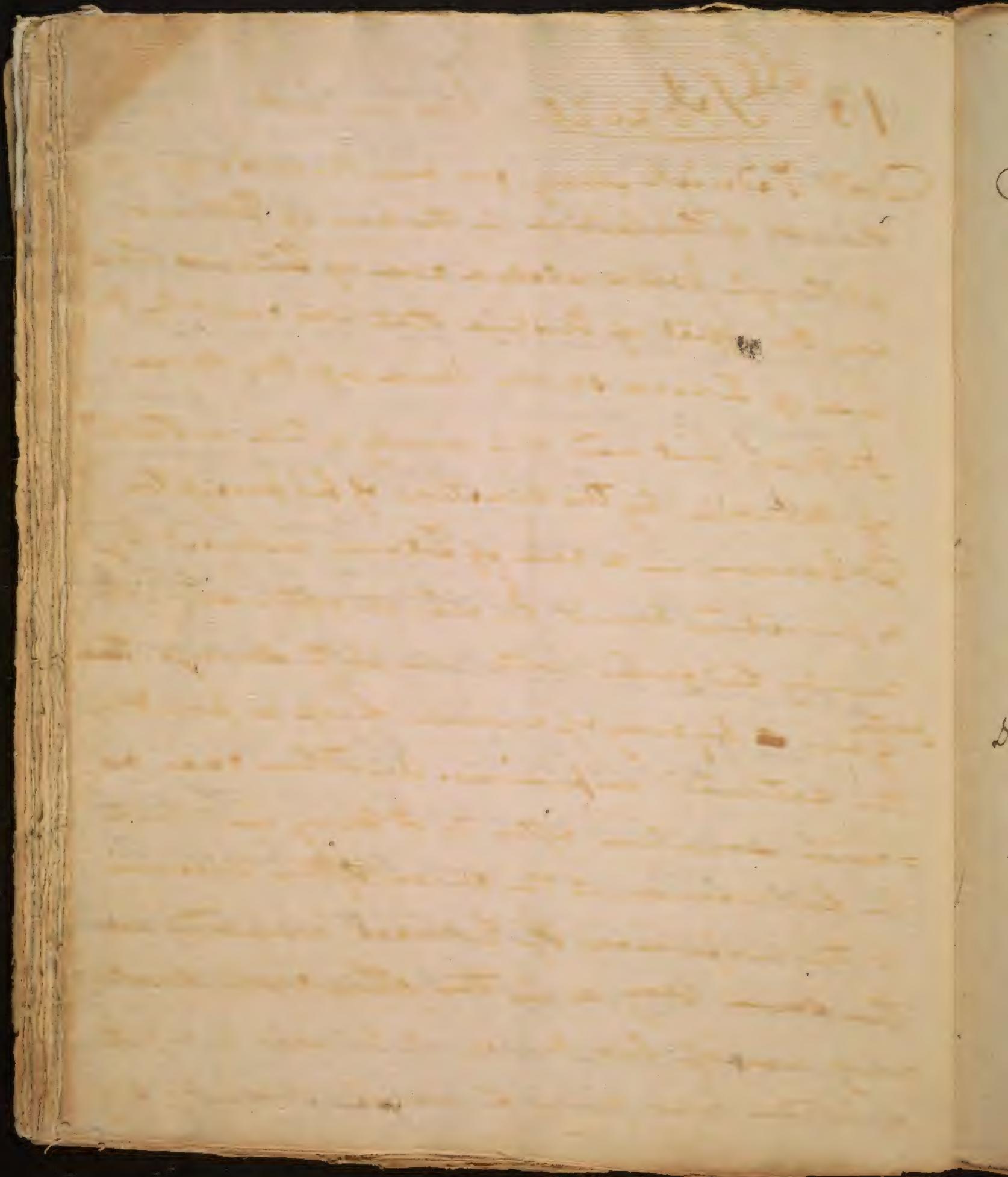
This practice was nearly forgotten, when,
to the great honour of Dr. Wright of La-

~~As one called the attention of the pub-
-lic to~~
~~maca, he called brought, its use into~~

publick notice. The success of
Dr Wright in the cure of Tetanus

with the cold bath, as well as the success of Doctor's Cochrane and Currie, have clearly vindicated its efficacy. Dr Rush has used the cold bath with success in the cure of Tetanus. In the use of this remedy it appears, from the frequent failures in the hands of Physicians, and more particularly in those of Dr Gib-
son, that we should pay strict attention to the state of the System.

12th. Warm Bath. This is a remedy which promises most good when the heat of the System is a good deal below its natural standard, and the patient com-
plains of chilliness, when the pulse is small & slow - This remedy was known and recommended by Dr Celsius -

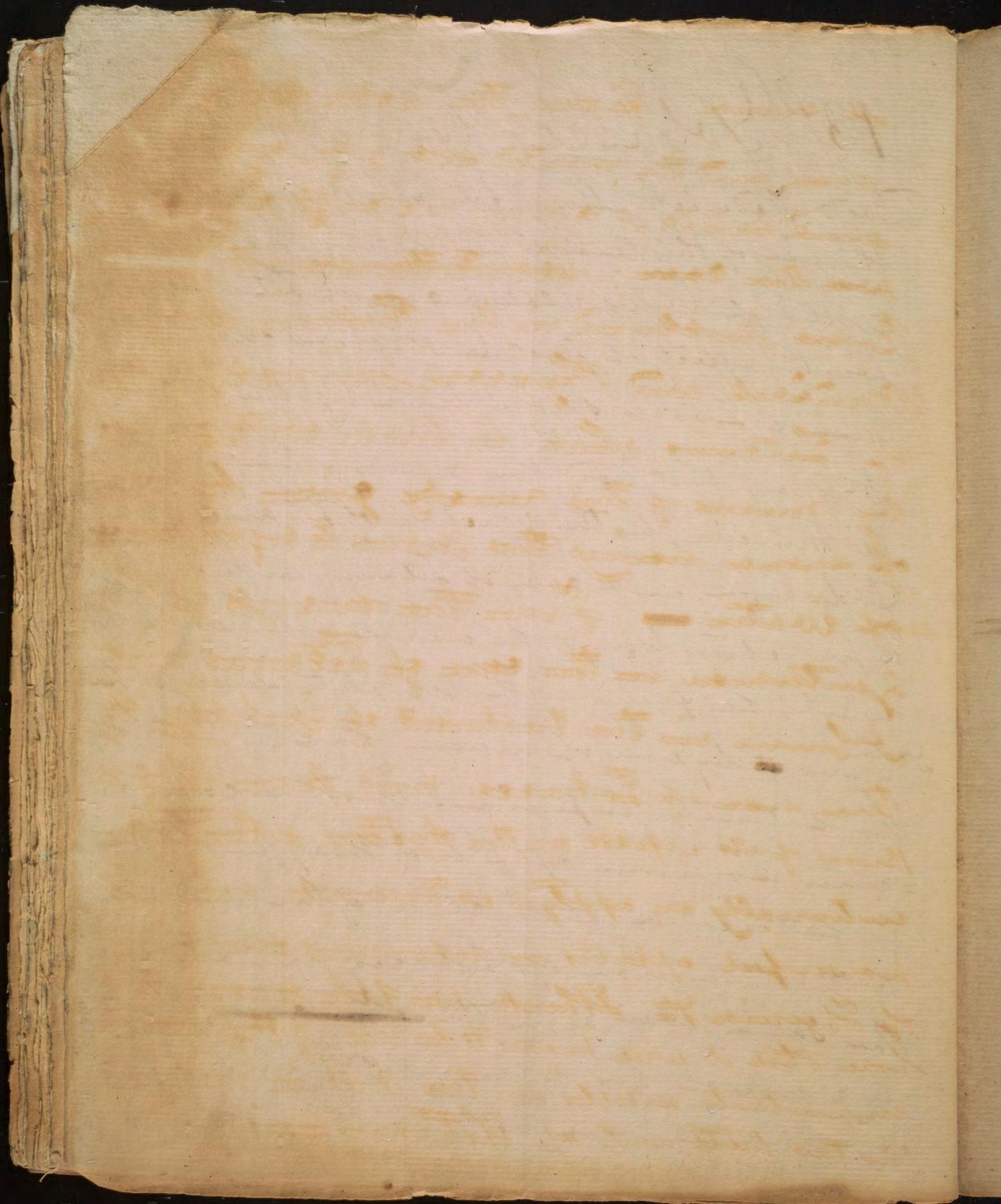


13- Tobacco. See an indebted to

Doct^r Frederick May, for an knowledge of
the use of this Article in the cure of Tetanus.

although Willis relates a case of Tetanus which
was the effect of Misteria that was cured by the
use of Tobacco smoke blown up the nose.

Dr May first used this remedy while a Student
of Medicine, by the direction of his preceptor
Dr Warren, in a case of Tetanus induced by
a punctured wound; he used it after every other
remedy had failed, with, complete success. the
doctor gave ~~it~~ by way of enema half a pound of
the saturated infusion. Another case ac-
=cured sometime after to Dr May, in which
he had recourse, at the close of the disease,
to the infusion of Tobacco, prepared in
the same way as in the ~~other case~~; make
=ing use of two Ounces of Tobacco to eight
of water and giving it all at once by way



of enema, from the extraordinary dose, and the exhausted state of the patient, we should expect it to prove instantly fatal as was the case. ~~As to the date Dr.~~
^{for the year 1808 Doct.}
Rogers published in the Philadelphia Medical and Physical Journal, a Case of Tetanus which he treated with success by means of this remedy given by way of enema, using two drams to eight ounces of water — From the success of those Gentlemen in the cure of Tetanus, and of Jubbie in the treatment of Epilepsy by the use of Tobacco, and from what we know of its effects on the system when taken internally or applied externally, and its powerful effects in relieving some cases of Hernia, &c, I think we have reason to hope that it will prove to be one of the most important articles of the Metrie Medicine in the treatment of Tetanus —.

